

FIG. 1A

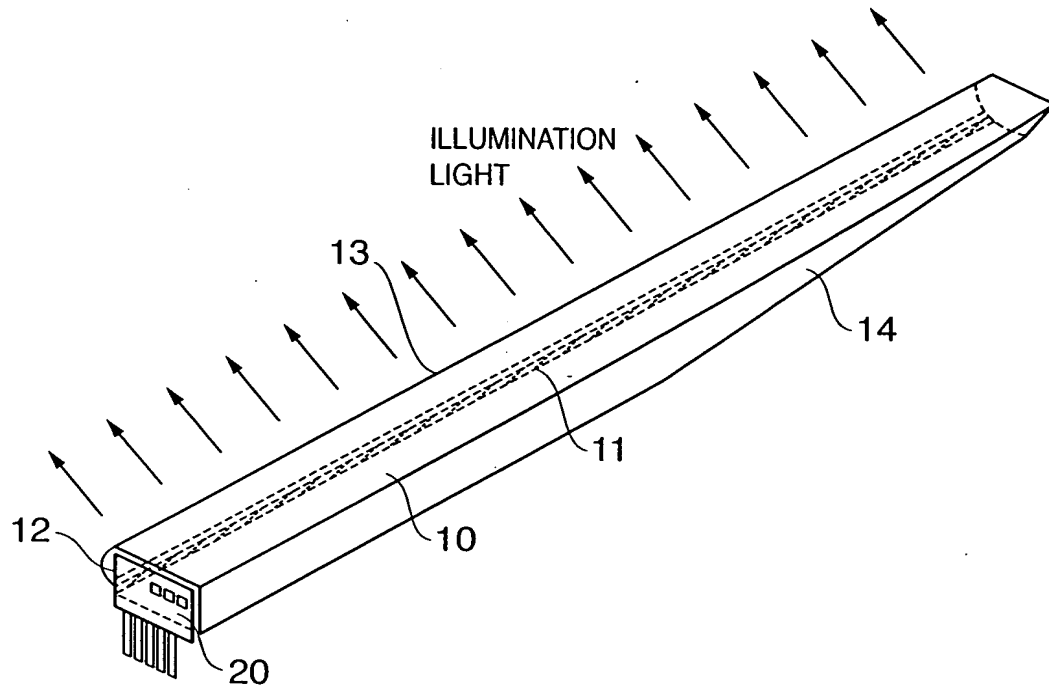
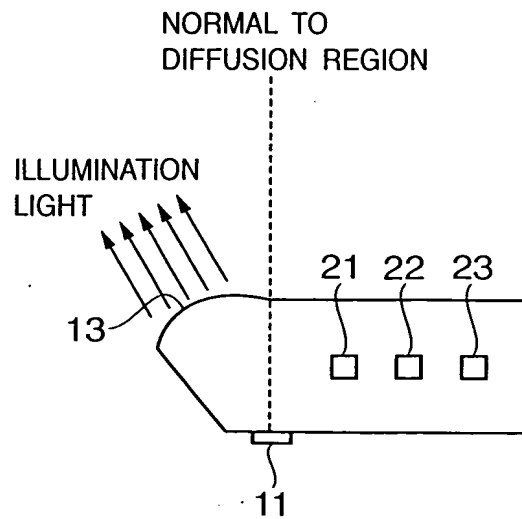


FIG. 1B



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FIG. 2A

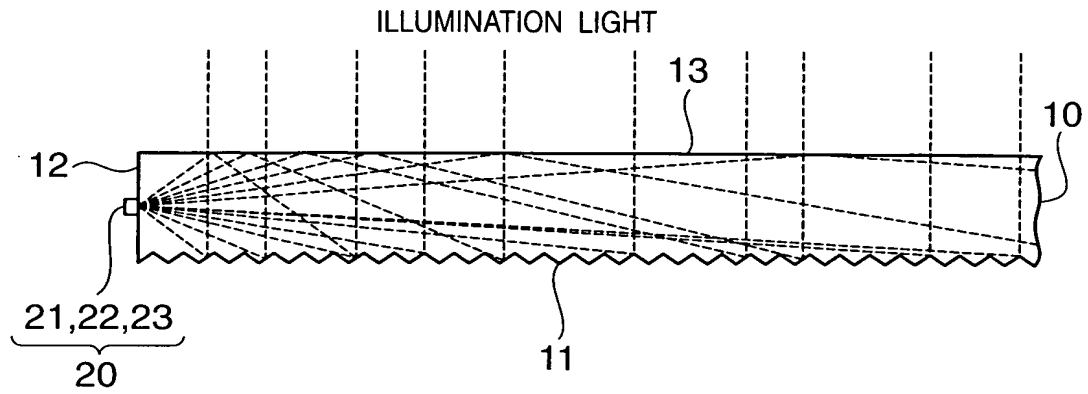


FIG. 2B

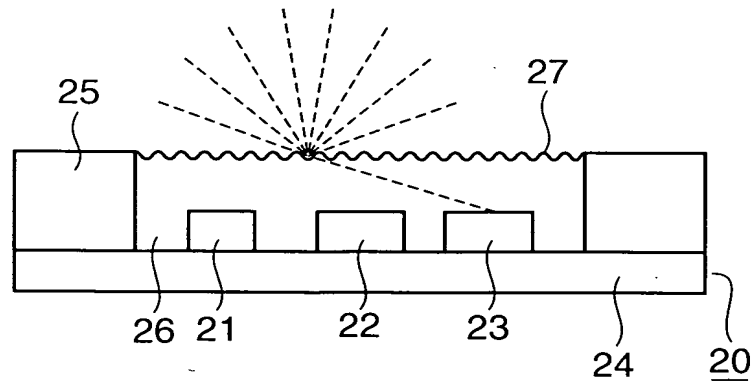
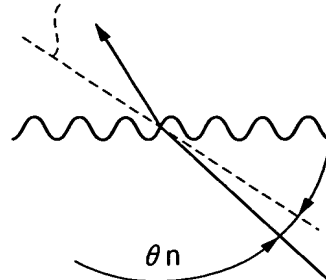


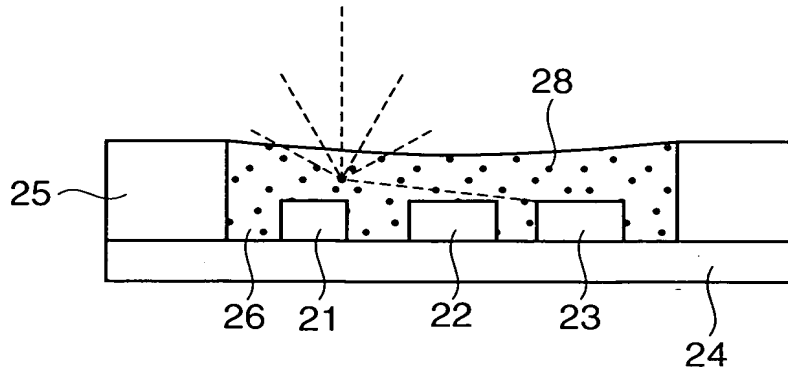
FIG. 2C

PERPENDICULAR TO SURFACE  
OF LIGHT-TRANSMITTING RESIN

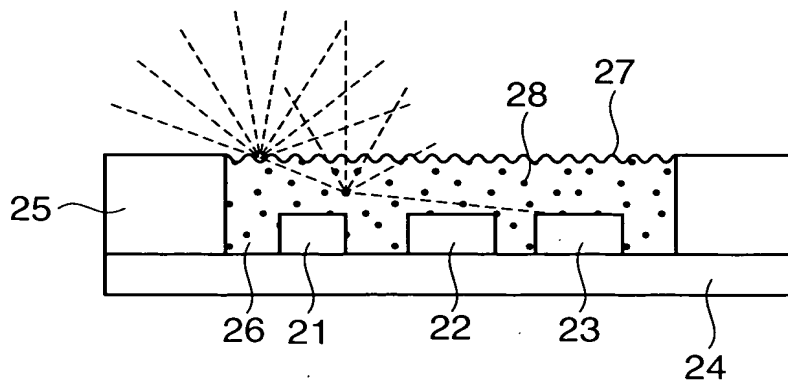


$$\theta_n \leq \theta_h = \text{ASIN} \left( \frac{\text{REFRACTIVE INDEX OF AIR}}{\text{REFRACTIVE INDEX OF LIGHT-TRANSMITTING RESIN}} \right)$$

**FIG. 3**

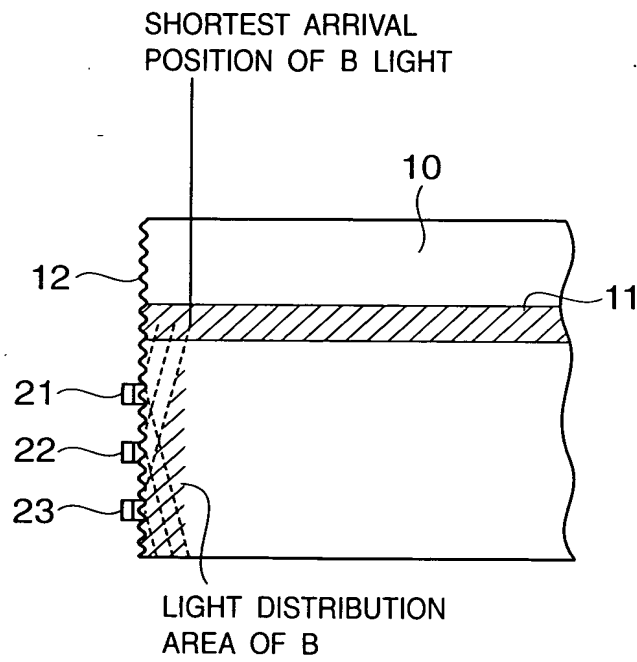


**FIG. 4**



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FIG. 5



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FIG. 6A

FIG. 6B

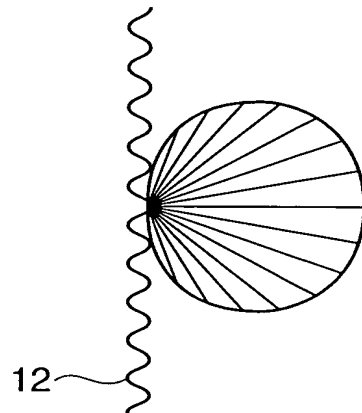
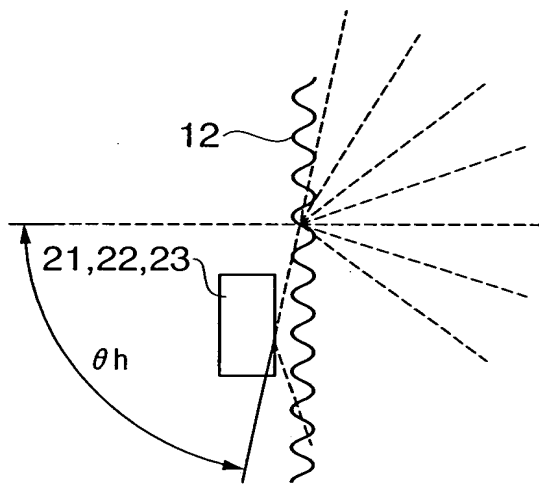
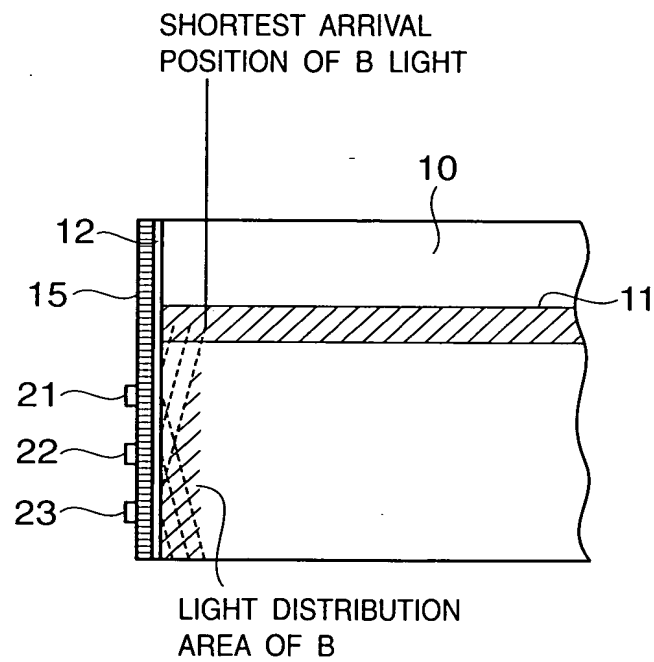


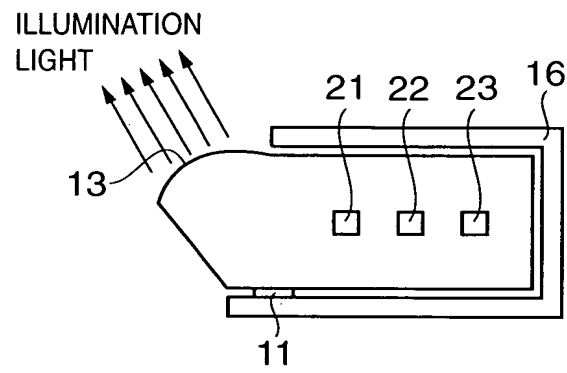
FIG. 6A

**FIG. 7**



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**FIG. 8**



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FIG. 9

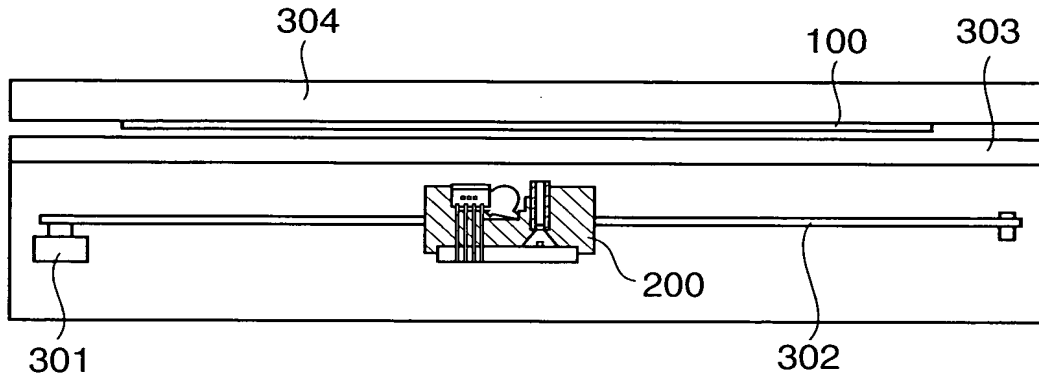


FIG. 9



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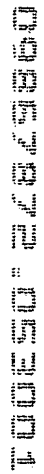


FIG. 11

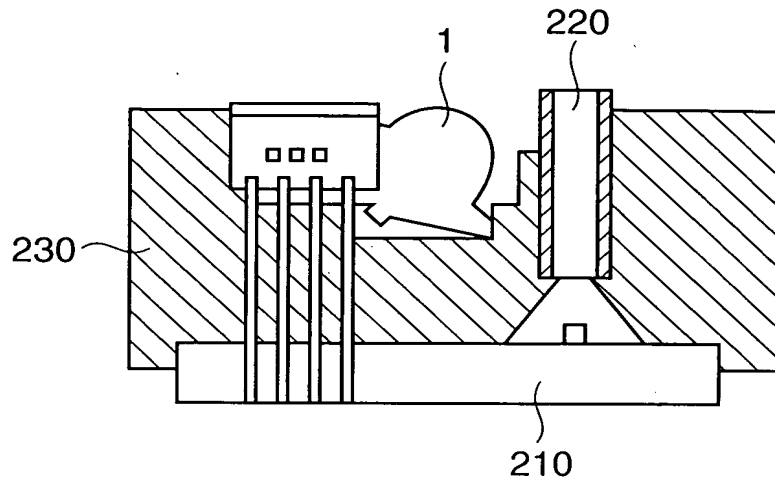


FIG. 12

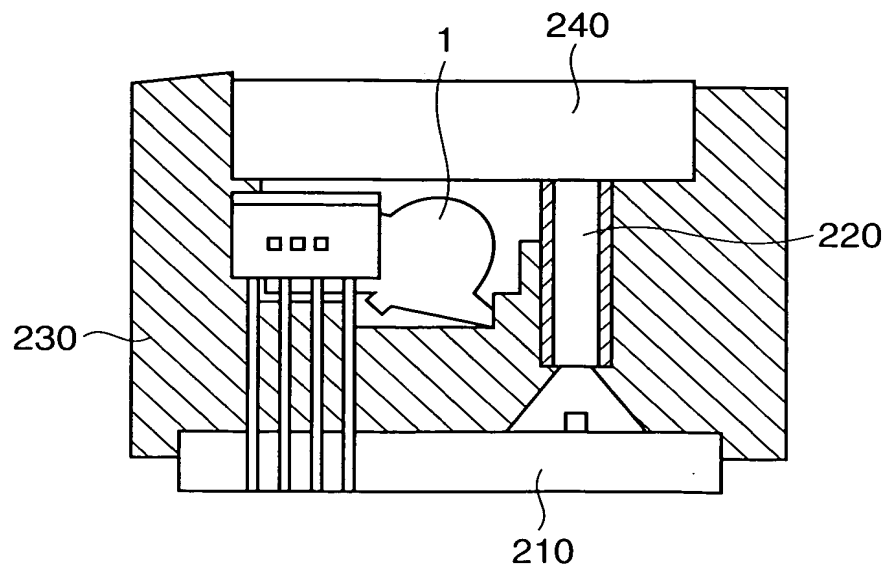


FIG. 13

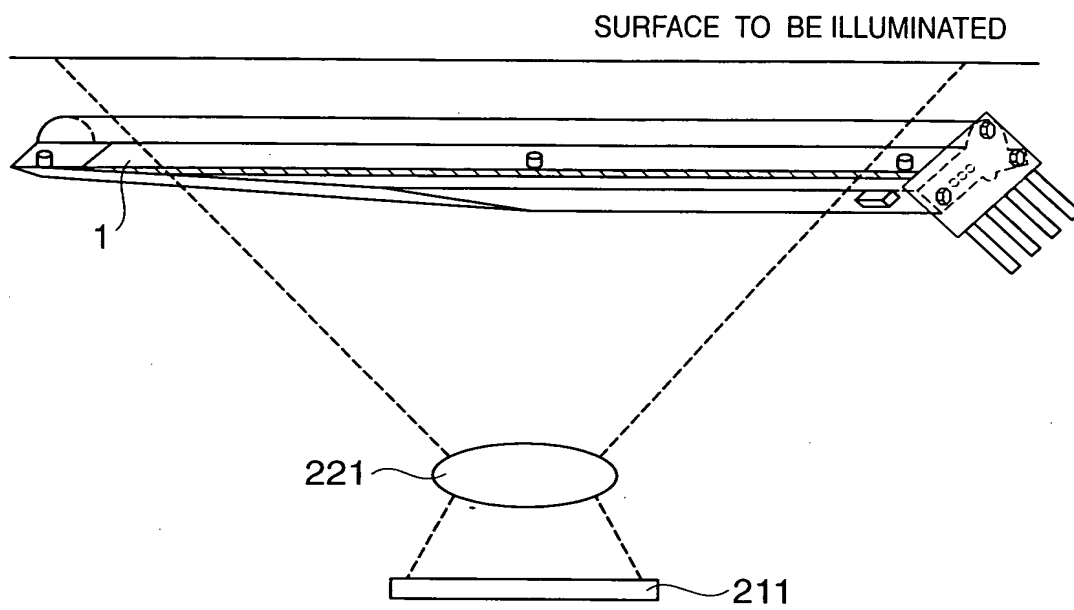


FIG. 13

FIG. 14

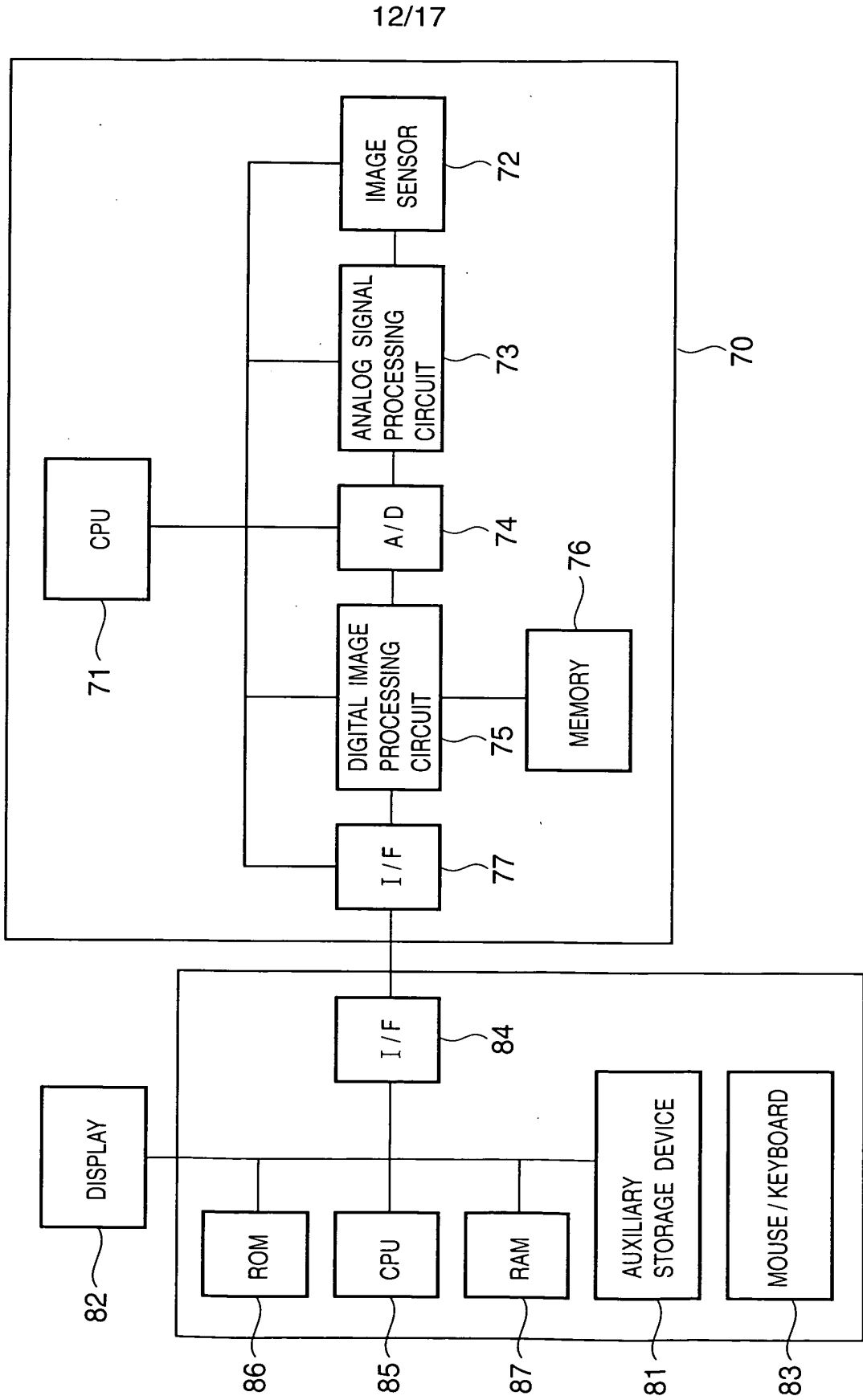
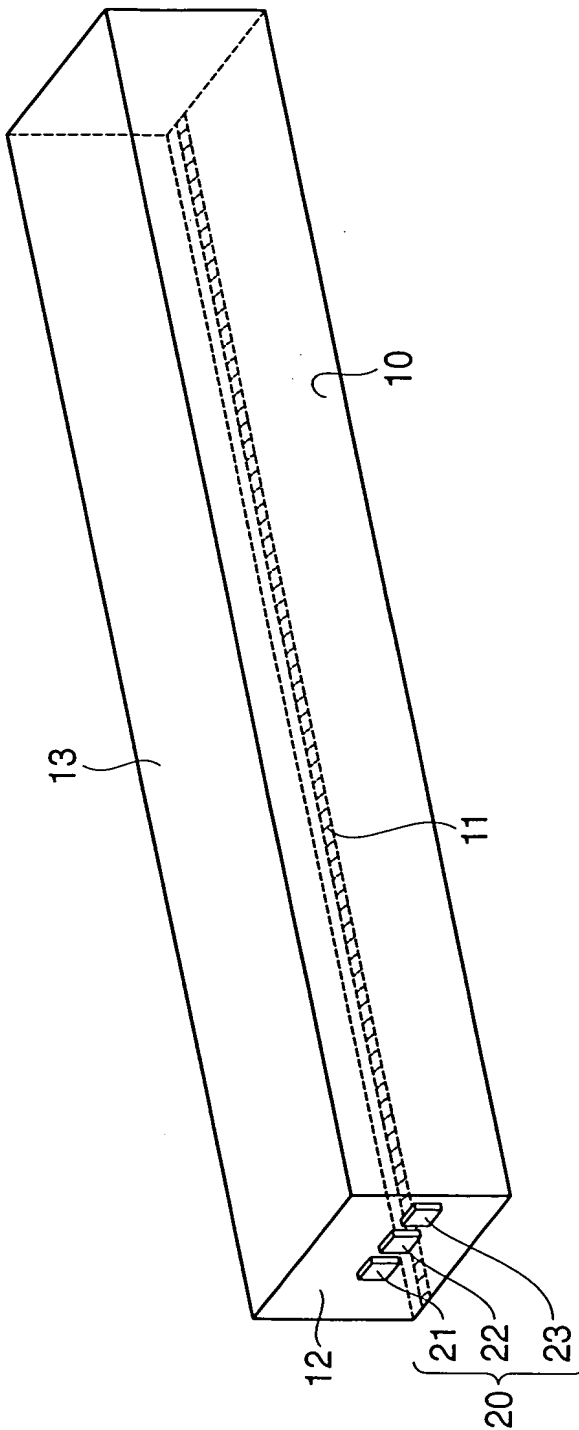
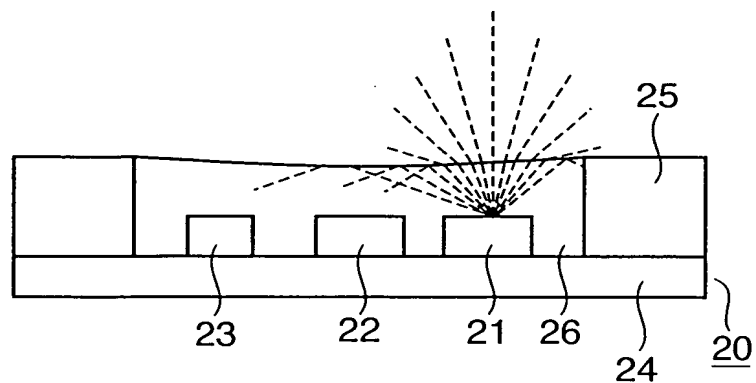


FIG. 15

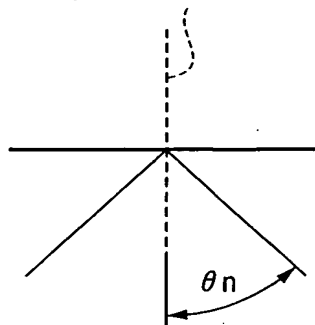


**FIG. 16A**



**FIG. 16B**

PERPENDICULAR TO SURFACE  
OF LIGHT-TRANSMITTING RESIN



$$\theta_n \geq \theta_h = \text{ASIN} \left( \frac{\text{REFRACTIVE INDEX OF AIR}}{\text{REFRACTIVE INDEX OF LIGHT-TRANSMITTING RESIN}} \right)$$

FIG. 17A

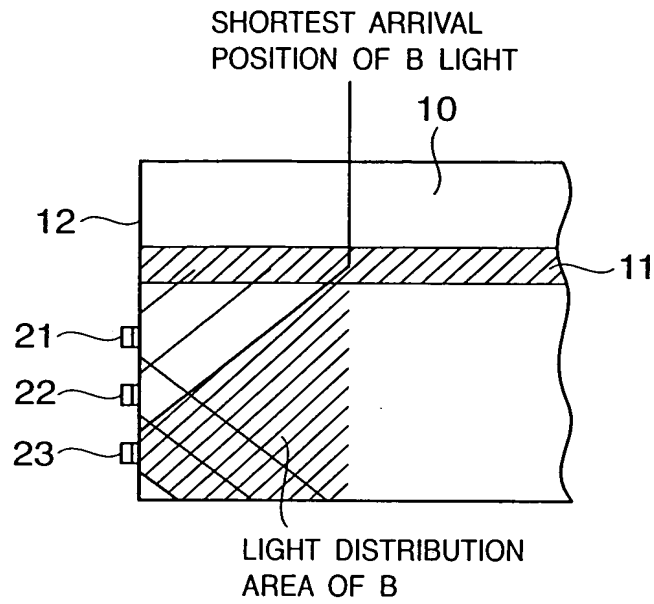
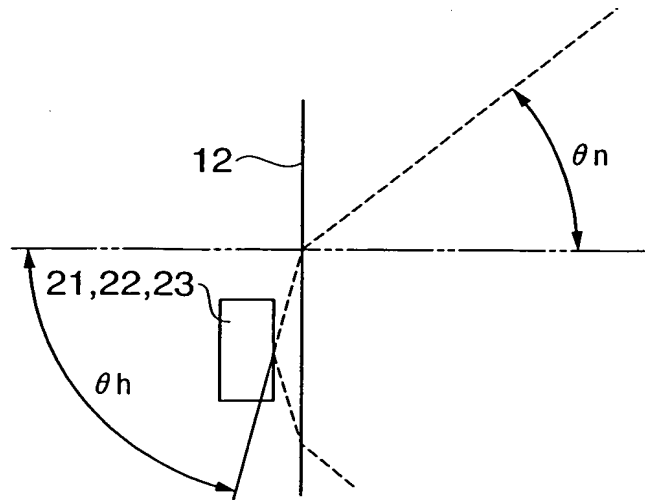
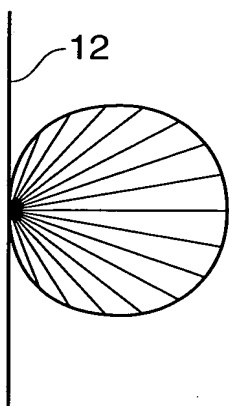


FIG. 17B

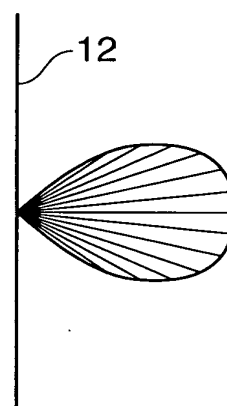


$$\theta_n \leq \theta_h = \text{ASIN} (\text{REFRACTIVE INDEX OF AIR} / \text{REFRACTIVE INDEX OF LIGHT-TRANSMITTING RESIN})$$

**FIG. 18A**



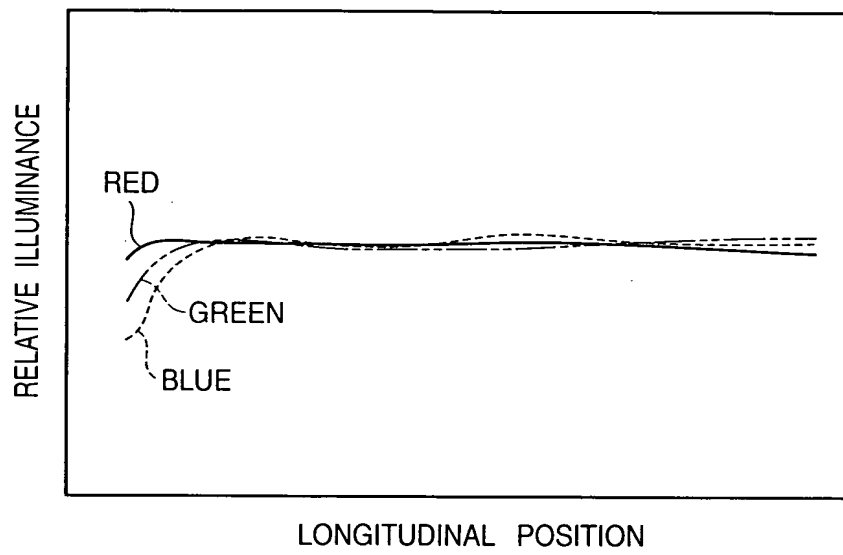
**FIG. 18B**



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**FIG. 19**



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